FIG.1B

NUMBER OF BITS

FIG.3

OFFSET SET VALUE

MAXIMUM TRANSMISSION POWER

DCH#1 THROUGH #N PRIORITY INFORMATION

DCH#1 DATA

DCH#N DATA

DCH DATA

HS-DSCH DATA

FIG.4

ST201 SECOND CHANNEL RESOURCE CALCULATION

ST202 FIRST CHANNEL RESOURCE CALCULATION

FIG.7

ST501 FIRST CHANNEL RESOURCE CALCULATION

ST502 SECOND CHANNEL RESOURCE CALCULATION

FIG.10

ST801 SECOND CHANNEL RESOURCE CALCULATION

ST802 FIRST CHANNEL RESOURCE CALCULATION

FIG.13

OFFSET SET VALUE

MAXIMUM TRANSMISSION POWER

DCH#1 THROUGH #N PRIORITY INFORMATION

DCH#1 DATA

DCH#N DATA

DCH DATA

HS-DSCH DATA

FIG.14

ST1201 SECOND CHANNEL RESOURCE CALCULATION

ST1202 FIRST CHANNEL RESOURCE CALCULATION

FIG.17

OFFSET SET VALUE

MAXIMUM TRANSMISSION POWER

DCH#1 THROUGH #N PRIORITY INFORMATION

DCH#1 DATA

DCH#N DATA

DCH DATA

HS-DSCH DATA

FIG.18

LOOP COUNT = NUMBER OF TFC'S

ST1601 SECOND CHANNEL RESOURCE CALCULATION

ST1602 FIRST CHANNEL RESOURCE CALCULATION

FIG.20

LOOP COUNT = NUMBER OF TFC'S

ST1801 FIRST TRANSMITTING SECTION PRIORITY?

ST1802 FIRST CHANNEL RESOURCE CALCULATION

ST1803 SECOND CHANNEL RESOURCE CALCULATION

ST1804 SECOND CHANNEL RESOURCE CALCULATION

ST1805 FIRST CHANNEL RESOURCE CALCULATION

FIG.22

ST2001 FIRST CHANNEL RESOURCE CALCULATION

FIRST TRANSMITTING SECTION

ST2002 ACK/NACK TRANSMISSION POWER RESOURCE CALCULATION

ST2003 CQI TRANSMISSION POWER RESOURCE CALCULATION

ST2004 E-DPDCH TRANSMISSION POWER RESOURCE CALCULATION

ST2005 DATA FORMAT INFORMATION TRANSMISSION POWER RESOURCE CALCULATION

ST2006 TRANSMISSION REQUEST INFORMATION TRANSMISSION POWER RESOURCE CALCULATION

SECOND TRANSMITTING SECTION

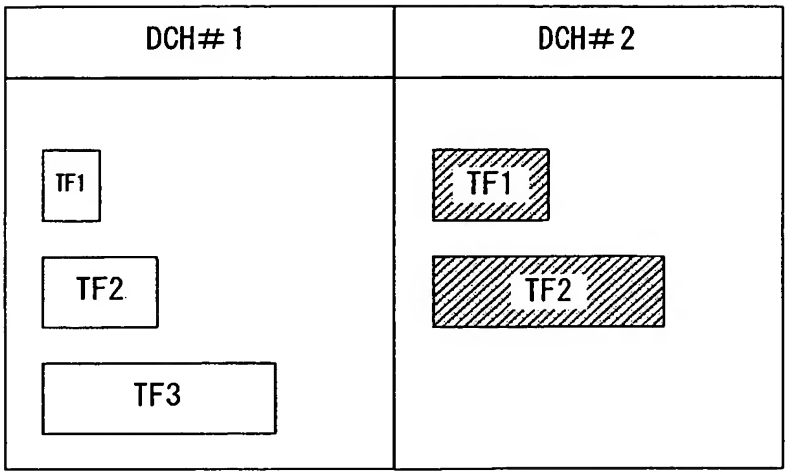

FIG. 1A

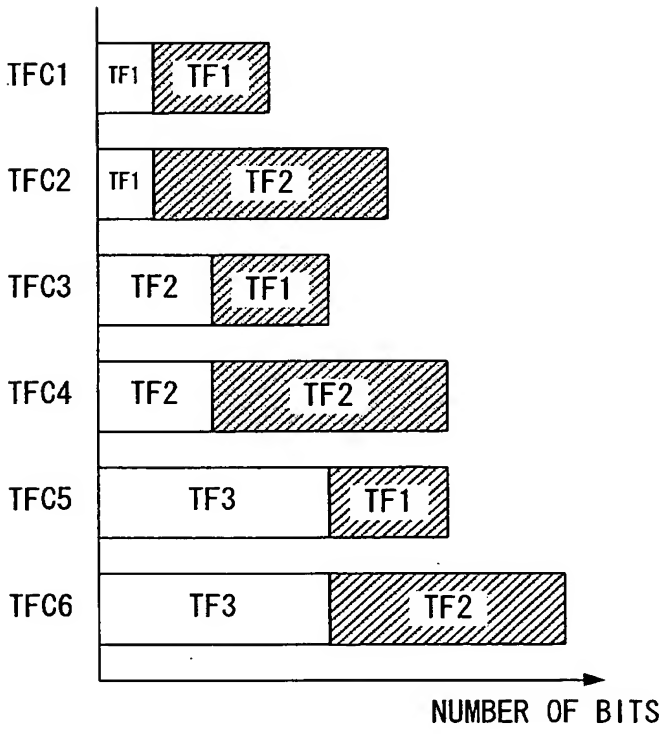

FIG.1B

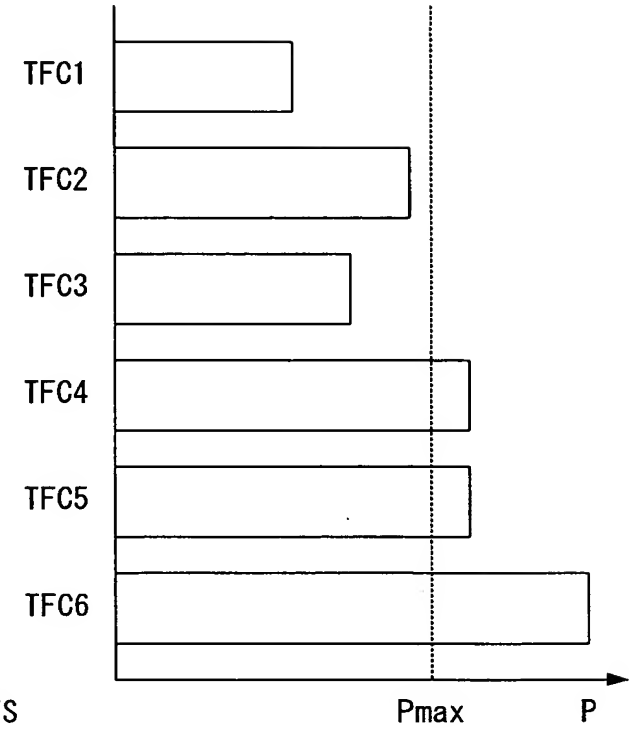

FIG.1C

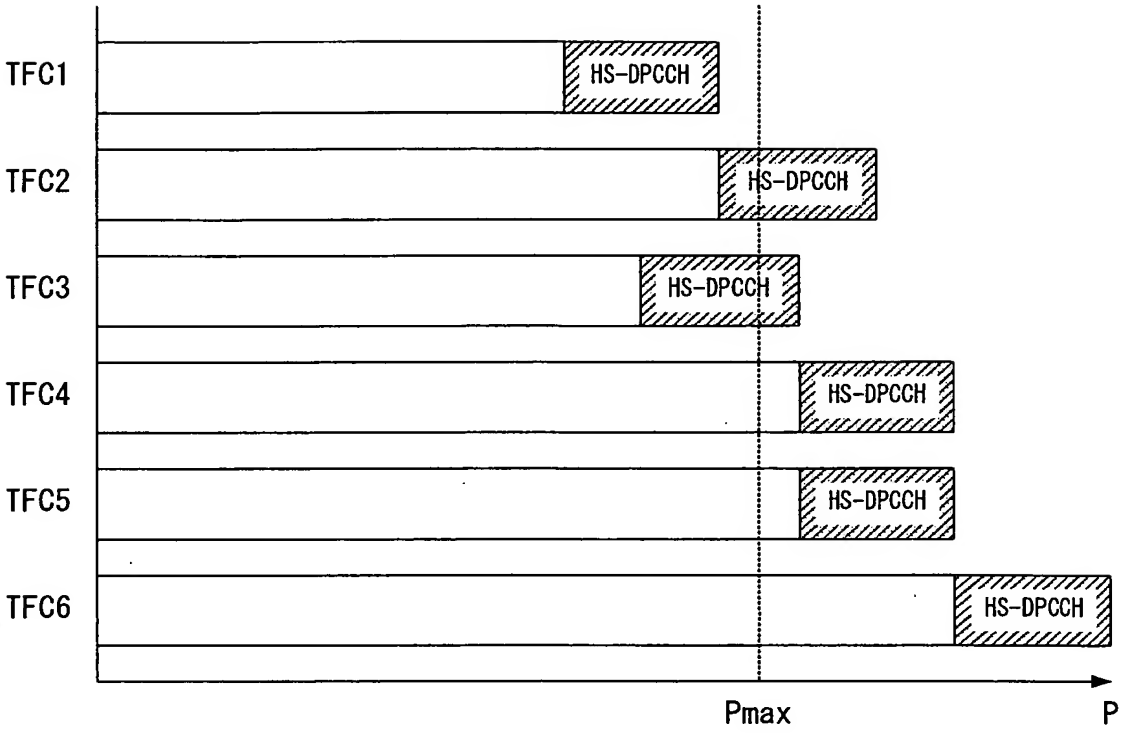
TFC1
HS-DPCCH
TFC2
HS-DPCCH
TFC3
HS-DPCCH
TFC4
HS-DPCCH
TFC5
HS-DPCCH
TFC6
HS-DPCCH
Pmax
P

FIG.2

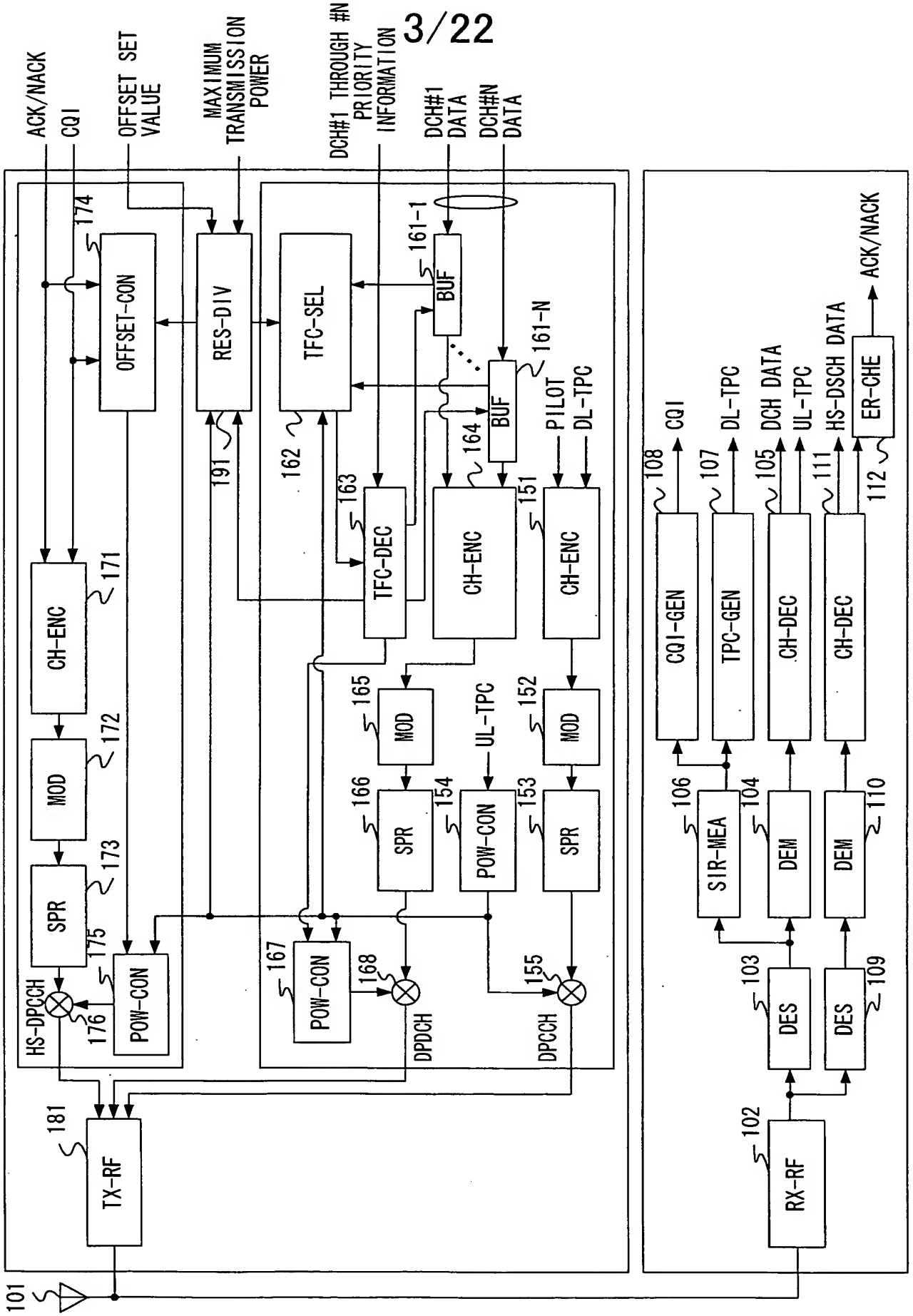
ACK/NACK
CQI
OFFSET SET VALUE
MAXIMUM TRANSMISSION POWER
DCH#1 THROUGH #N PRIORITY INFORMATION
DCH#1 DATA
DCH#N DATA
OFFSET-CON
RES-DIV
TFC-SEL
BUF
BUF
CH-ENC
MOD
SPR
POW-CON
TFC-DEC
CH-ENC
MOD
SPR
POW-CON
CH-ENC
MOD
SPR
HS-DPCCH
DPDCH
DPCCH
PILOT
DL-TPC
UL-TPC
TX-RF
RX-RF
DES
DES
DEM
DEM
SIR-MEA
CQI-GEN
TPC-GEN
CH-DEC
CH-DEC
ER-CHE
CQI
DL-TPC
DCH DATA
UL-TPC
HS-DSCH DATA
ACK/NACK
101
102
103
104
105
106
107
108
109
110
111
112
151
152
153
154
155
161-1
161-N
162
163
164
165
166
167
168
171
172
173
174
175
176
181
191

FIG.3

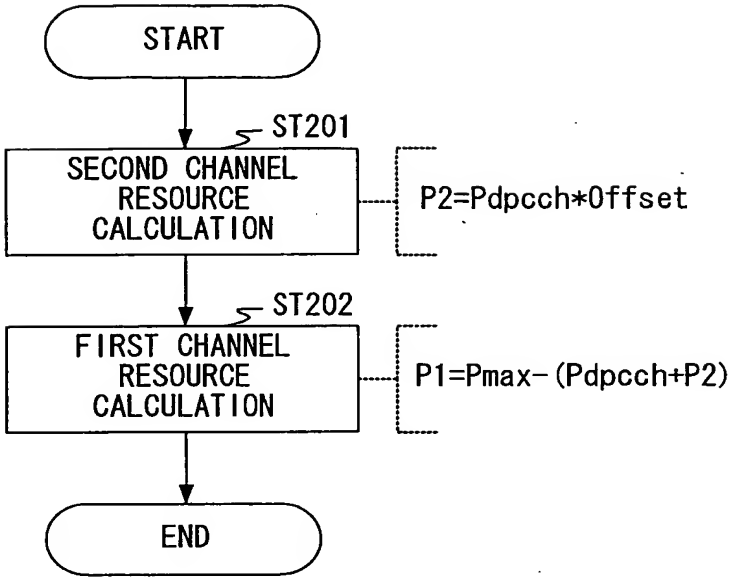
START
ST201
SECOND CHANNEL RESOURCE CALCULATION
P2=Pdpcch*Offset
ST202
FIRST CHANNEL RESOURCE CALCULATION
P1=Pmax-(Pdpcch+P2)
END

FIG.4

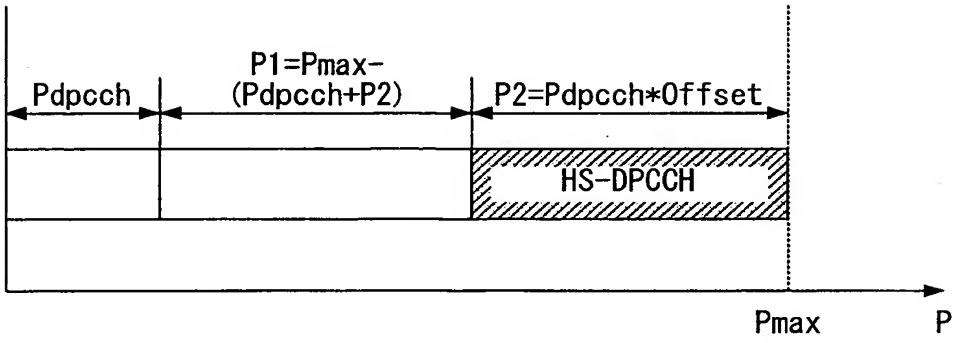

FIG.5

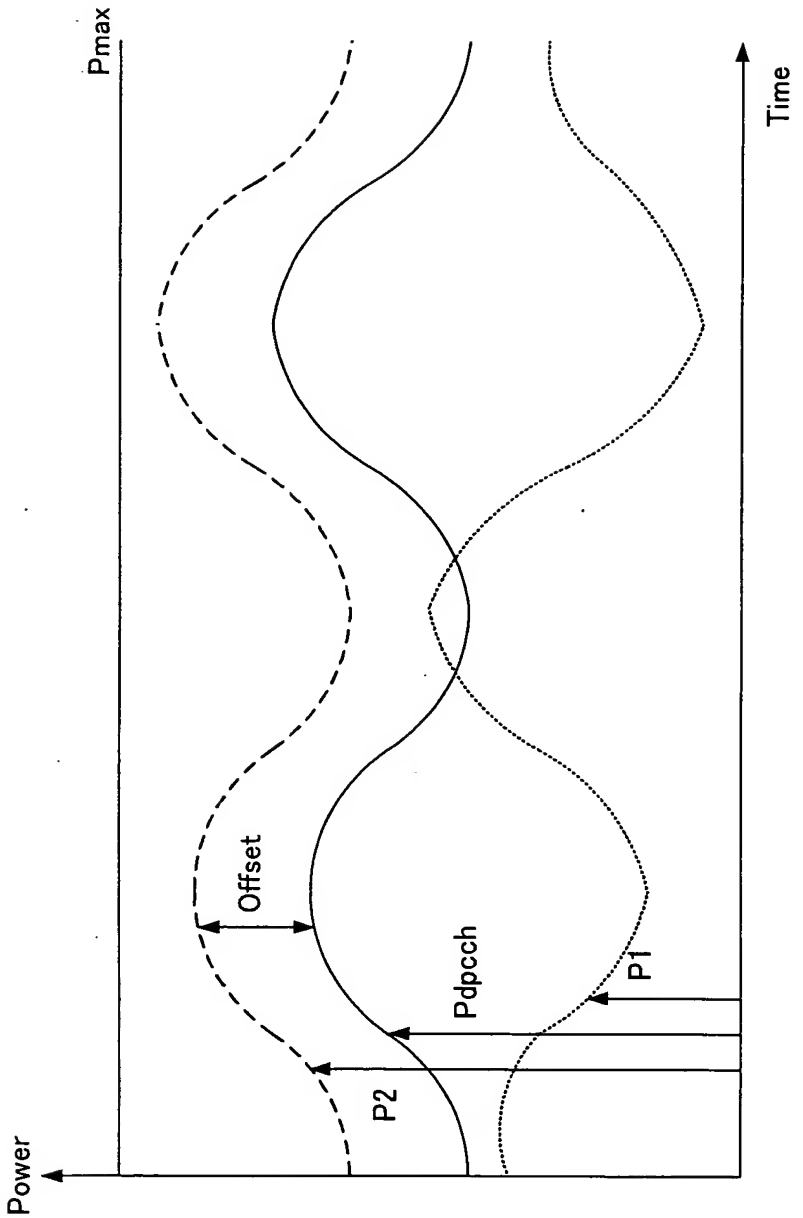

FIG.6

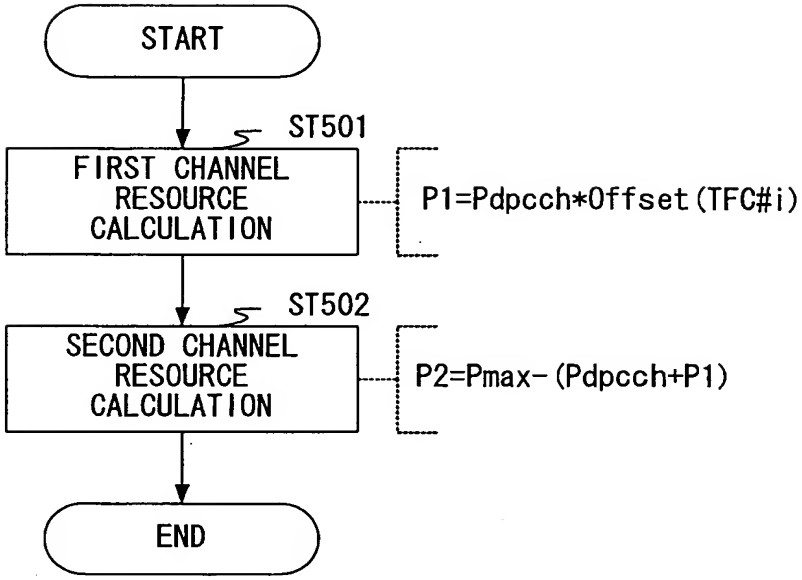
START
ST501
FIRST CHANNEL RESOURCE CALCULATION
P1=Pdpcch*Offset(TFC#i)
ST502
SECOND CHANNEL RESOURCE CALCULATION
P2=Pmax-(Pdpcch+P1)
END

FIG.7

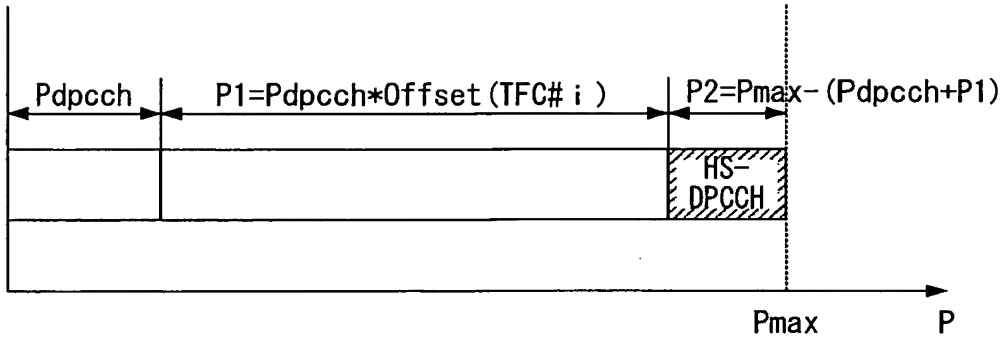
Pdpcch
P1=Pdpcch*Offset(TFC# i)
P2=Pmax-(Pdpcch+P1)
HS-DPCCH
Pmax
P

FIG.8

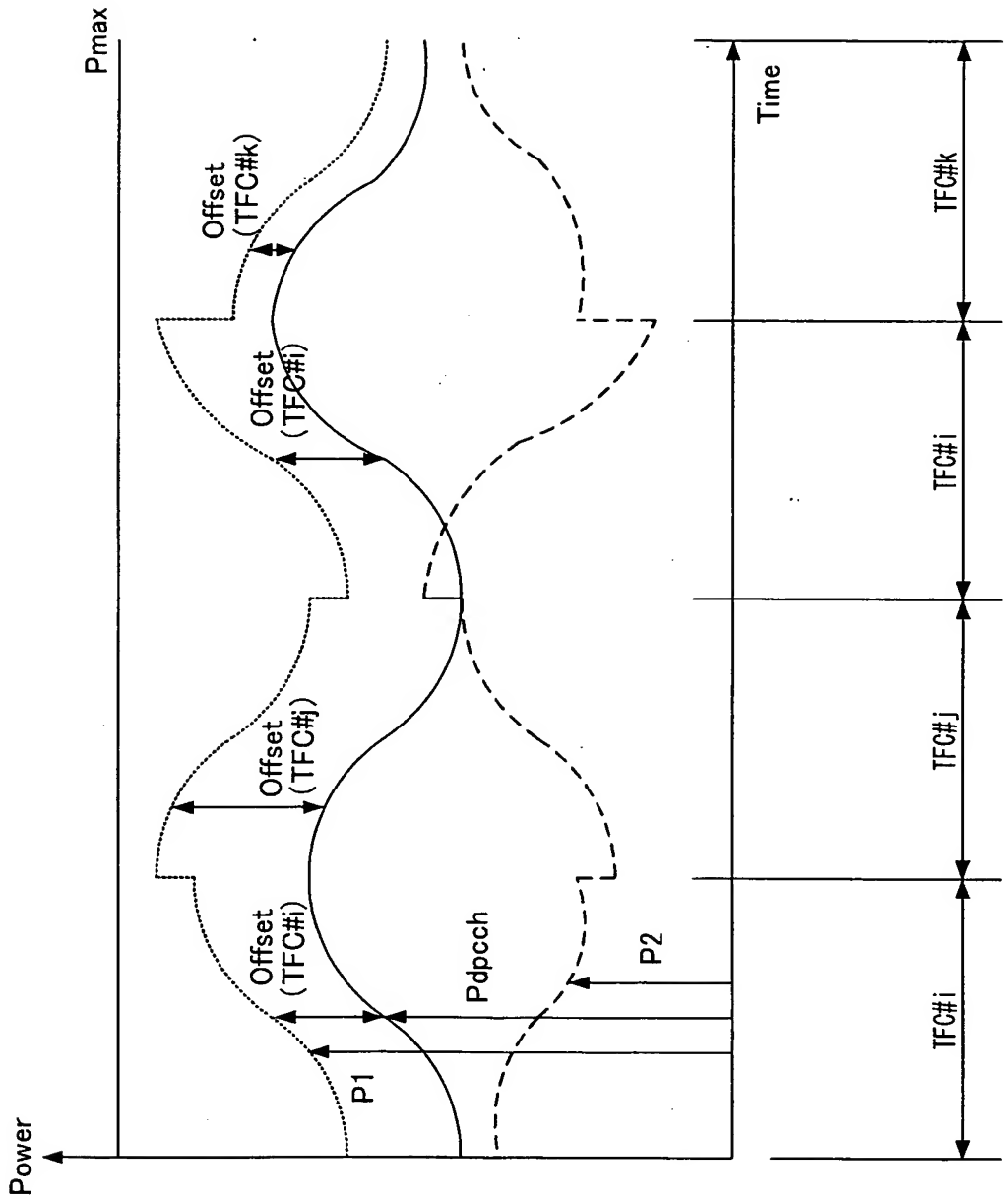
Pmax
Power
Time
Offset (TFC#k)
Offset (TFC#i)
Offset (TFC#j)
Offset (TFC#i)
P1
Pdpcch
P2
TFC#k
TFC#i
TFC#j
TFC#i

FIG.9

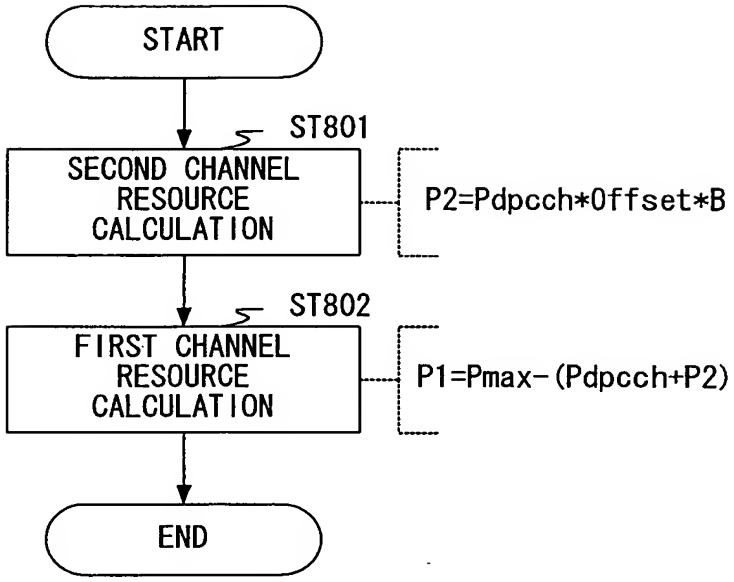
START
ST801
SECOND CHANNEL RESOURCE CALCULATION
P2=Pdpcch*Offset*B
ST802
FIRST CHANNEL RESOURCE CALCULATION
P1=Pmax-(Pdpcch+P2)
END

FIG.10

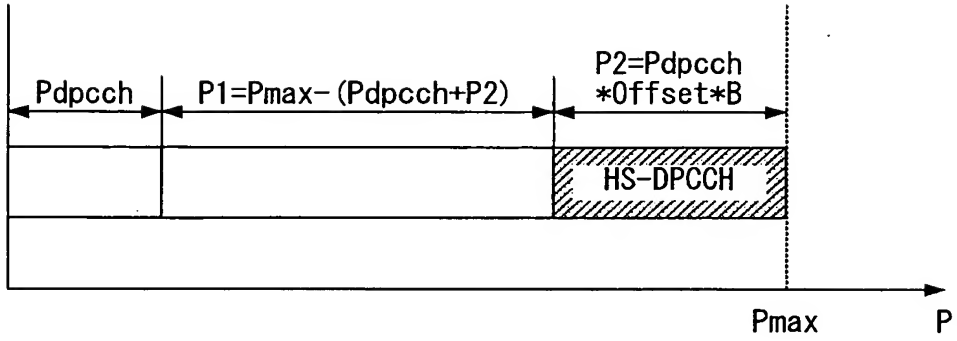

FIG.11

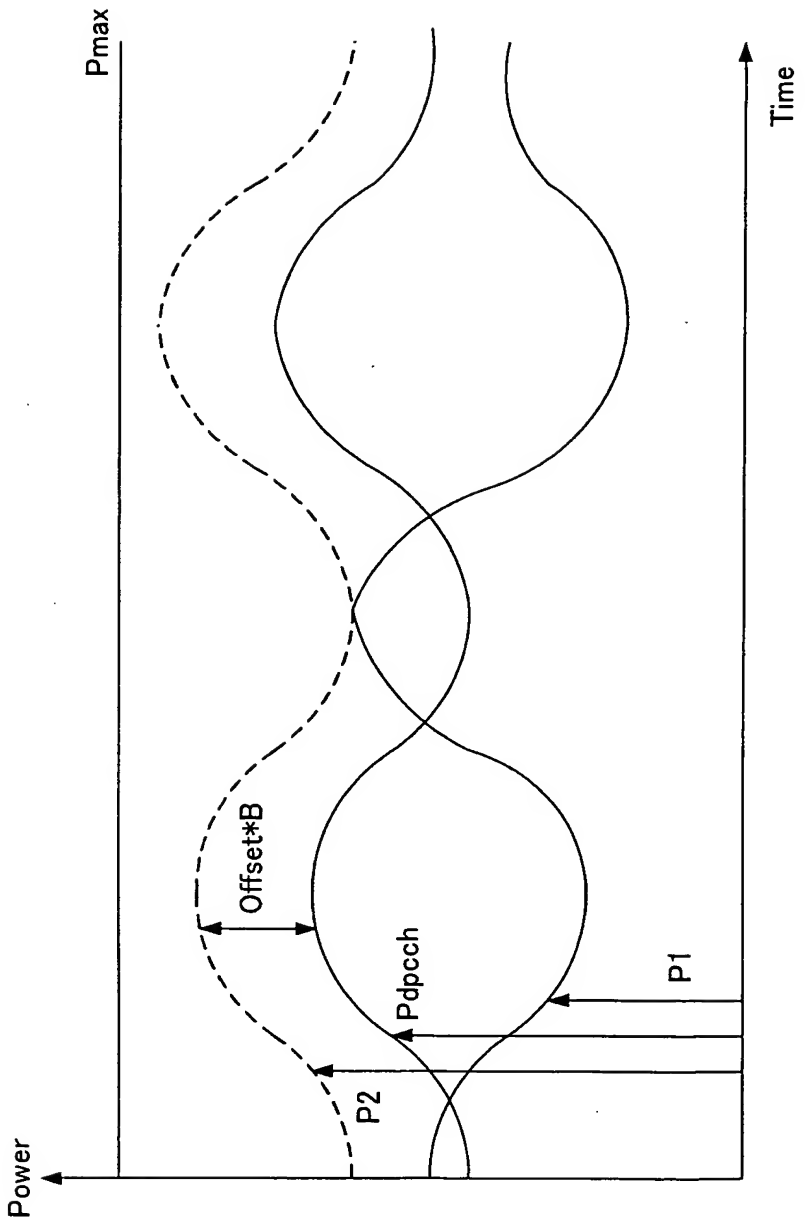

FIG.12

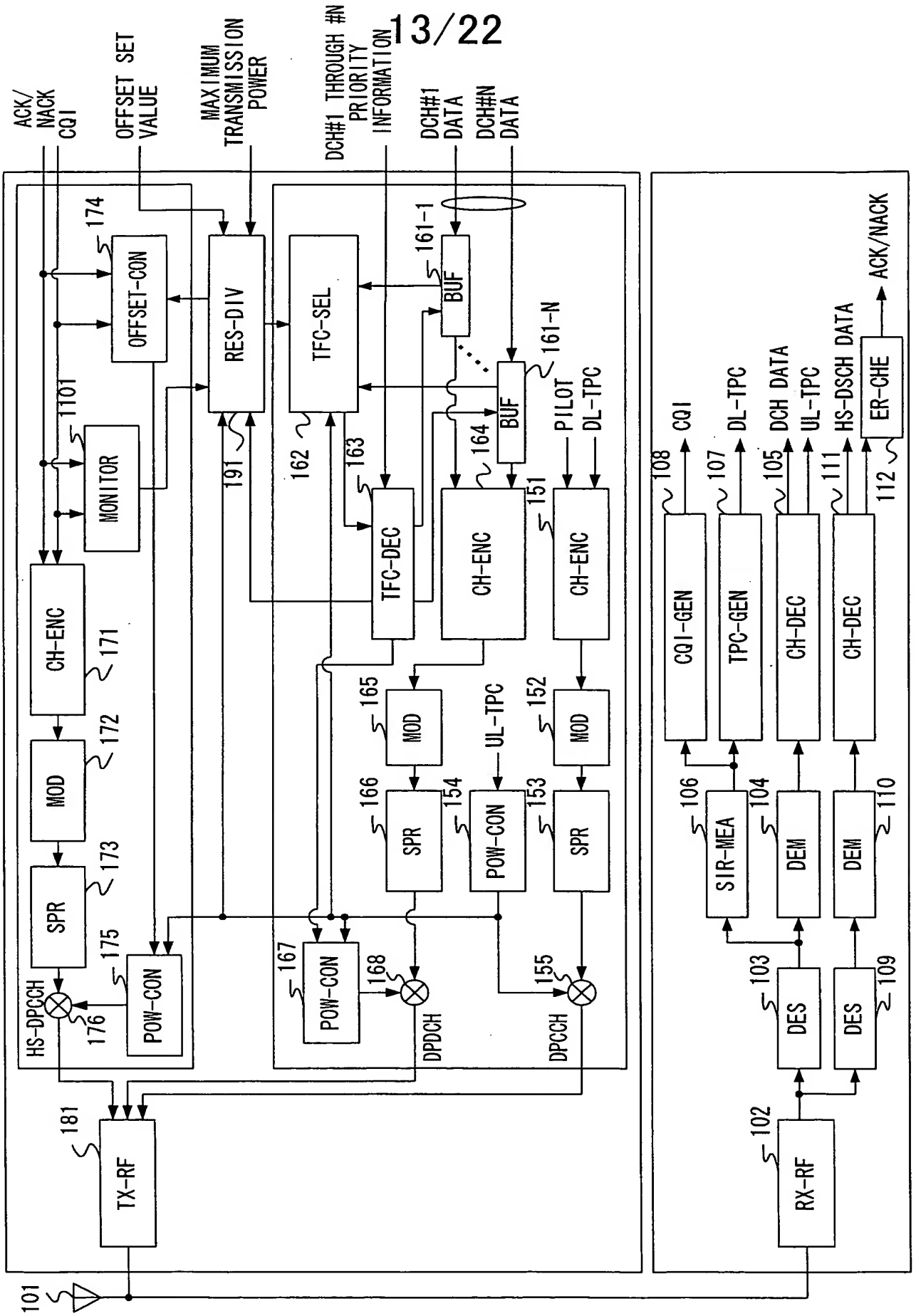
ACK/NACK CQI
OFFSET SET VALUE
MAXIMUM TRANSMISSION POWER
DCH#1 THROUGH #N PRIORITY INFORMATION
DCH#1 DATA
DCH#N DATA
OFFSET-CON
RES-DIV
TFC-SEL
BUF
MONITOR
CH-ENC
MOD
SPR
POW-CON
TFC-DEC
PILOT
DL-TPC
UL-TPC
HS-DPCCH
DPDCH
DPCCH
TX-RF
RX-RF
DES
DEM
SIR-MEA
CH-DEC
TPC-GEN
CQI-GEN
ER-CHE
HS-DSCH DATA
DCH DATA
ACK/NACK
CQI

FIG.13

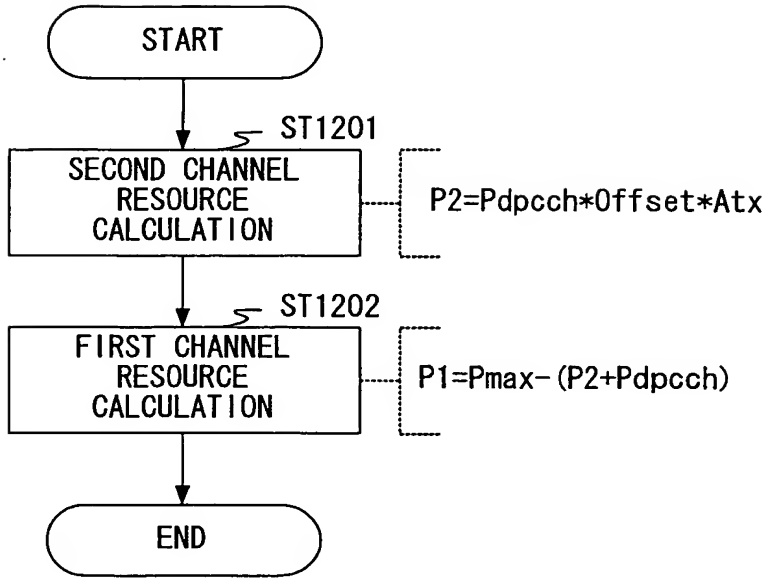
START
ST1201
SECOND CHANNEL RESOURCE CALCULATION
P2=Pdpcch*Offset*Atx
ST1202
FIRST CHANNEL RESOURCE CALCULATION
P1=Pmax-(P2+Pdpcch)
END

FIG.14

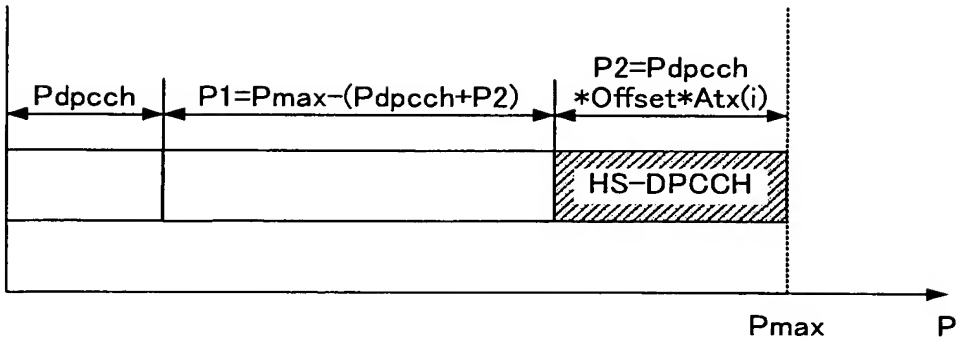
Pdpcch
P1=Pmax-(Pdpcch+P2)
P2=Pdpcch
*Offset*Atx(i)
HS-DPCCH
Pmax
P

FIG.15

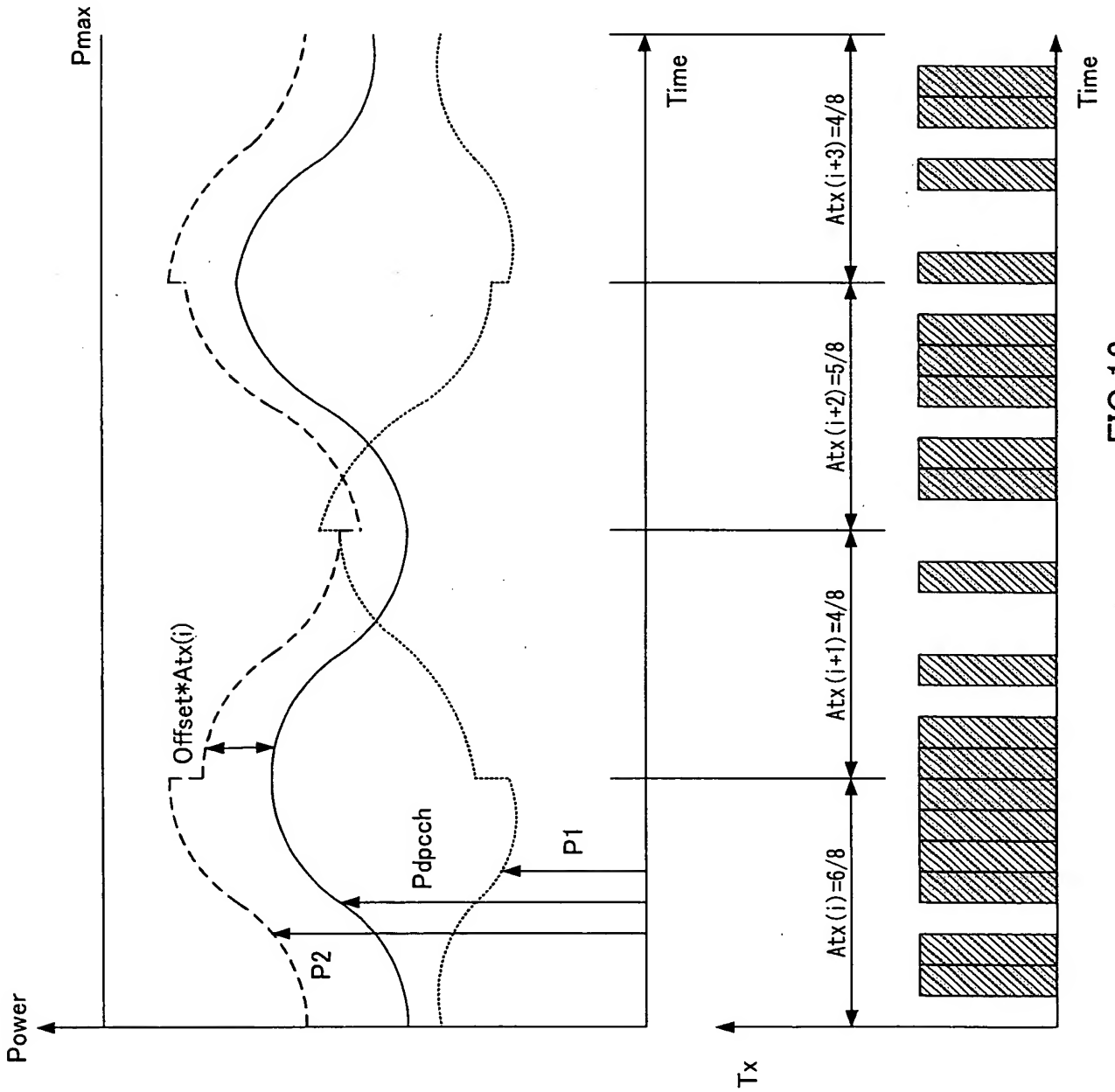
Pmax
Power
Offset*Atx(i)
P2
Pdpcch
P1
Time
Atx(i+3)=4/8
Atx(i+2)=5/8
Atx(i+1)=4/8
Atx(i)=6/8
Tx
Time

FIG.16

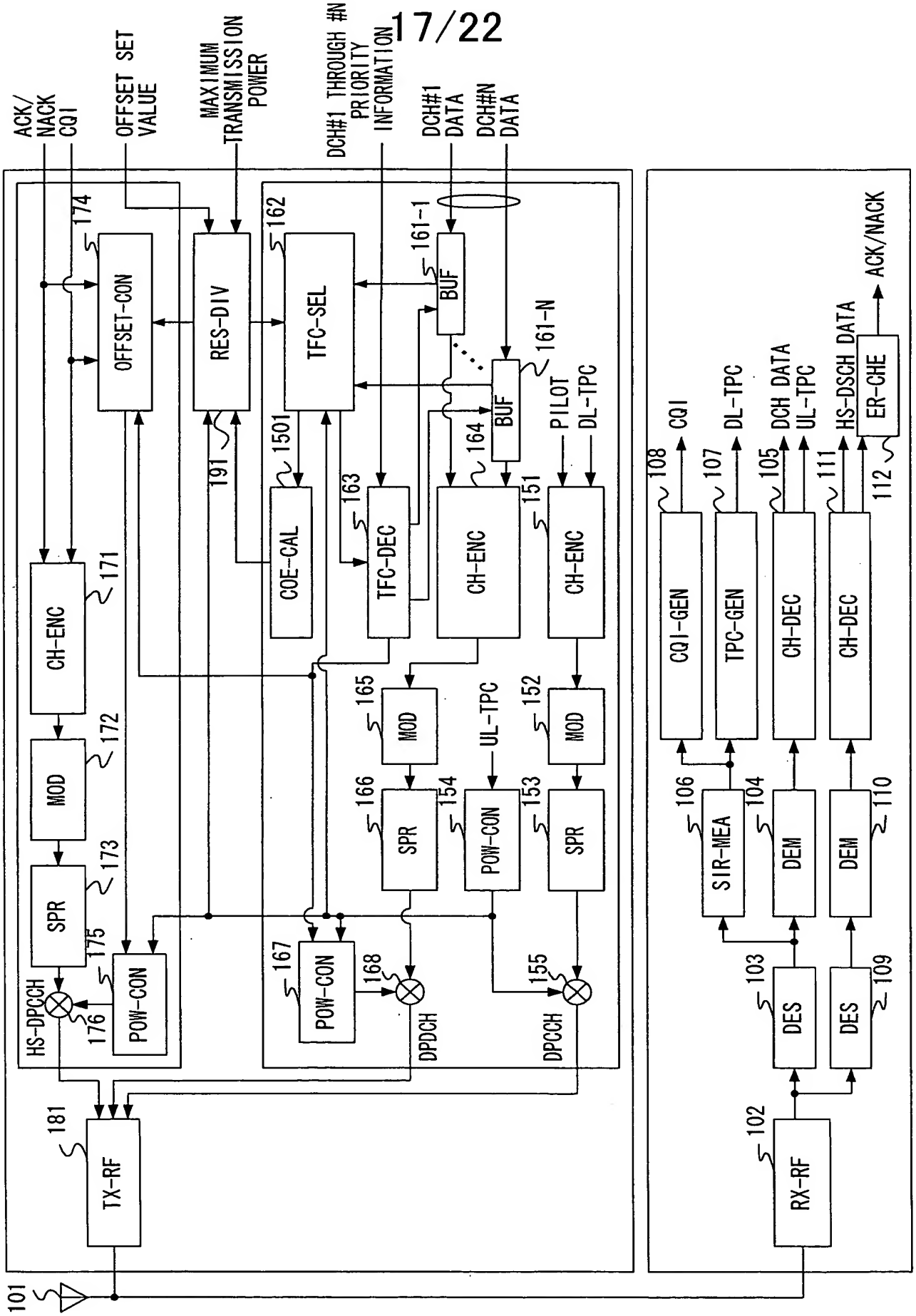
ACK/
NACK
CQI
OFFSET SET
VALUE
MAXIMUM
TRANSMISSION
POWER
DCH#1 THROUGH #N
PRIORITY
INFORMATION
DCH#1
DATA
DCH#N
DATA
OFFSET-CON
RES-DIV
TFC-SEL
BUF
BUF
CH-ENC
MOD
SPR
POW-CON
COE-CAL
TFC-DEC
CH-ENC
CH-ENC
MOD
SPR
POW-CON
MOD
SPR
HS-DPCCH
DPDCH
DPCCH
PILOT
DL-TPC
UL-TPC
TX-RF
RX-RF
DES
DES
DEM
DEM
SIR-MEA
CQI-GEN
TPC-GEN
CH-DEC
CH-DEC
ER-CHE
CQI
DL-TPC
DCH DATA
UL-TPC
HS-DSCH DATA
ACK/NACK

FIG.17

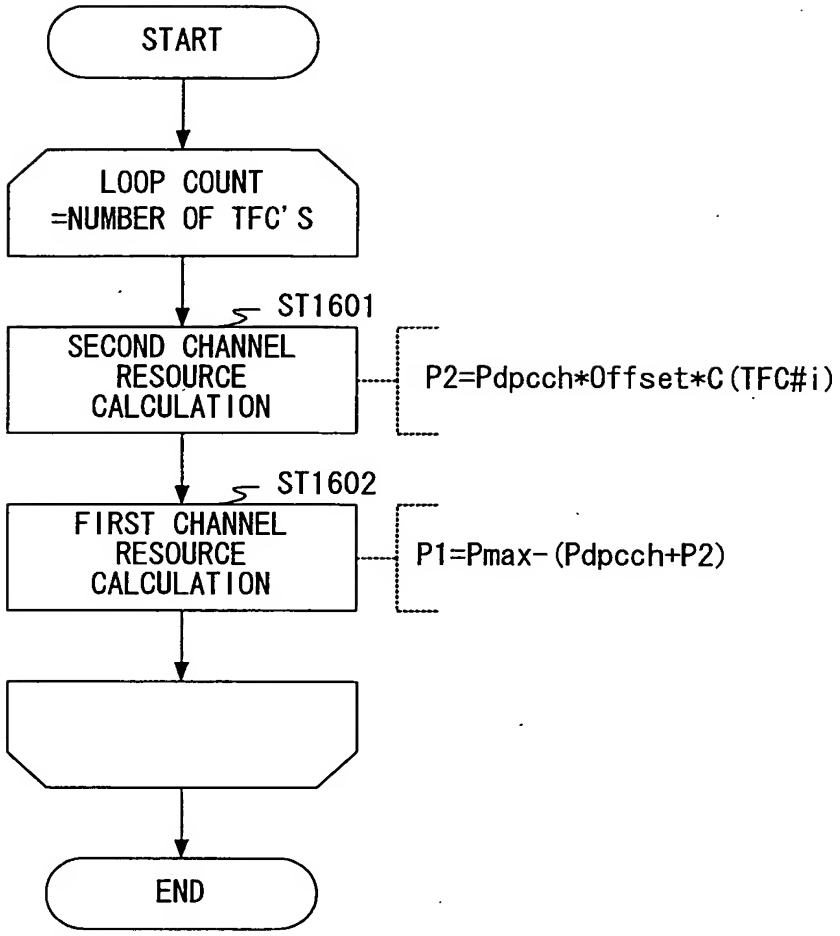
START
LOOP COUNT
=NUMBER OF TFC'S
ST1601
SECOND CHANNEL
RESOURCE
CALCULATION
P2=Pdpcch*Offset*C(TFC#i)
ST1602
FIRST CHANNEL
RESOURCE
CALCULATION
P1=Pmax-(Pdpcch+P2)
END

FIG.18

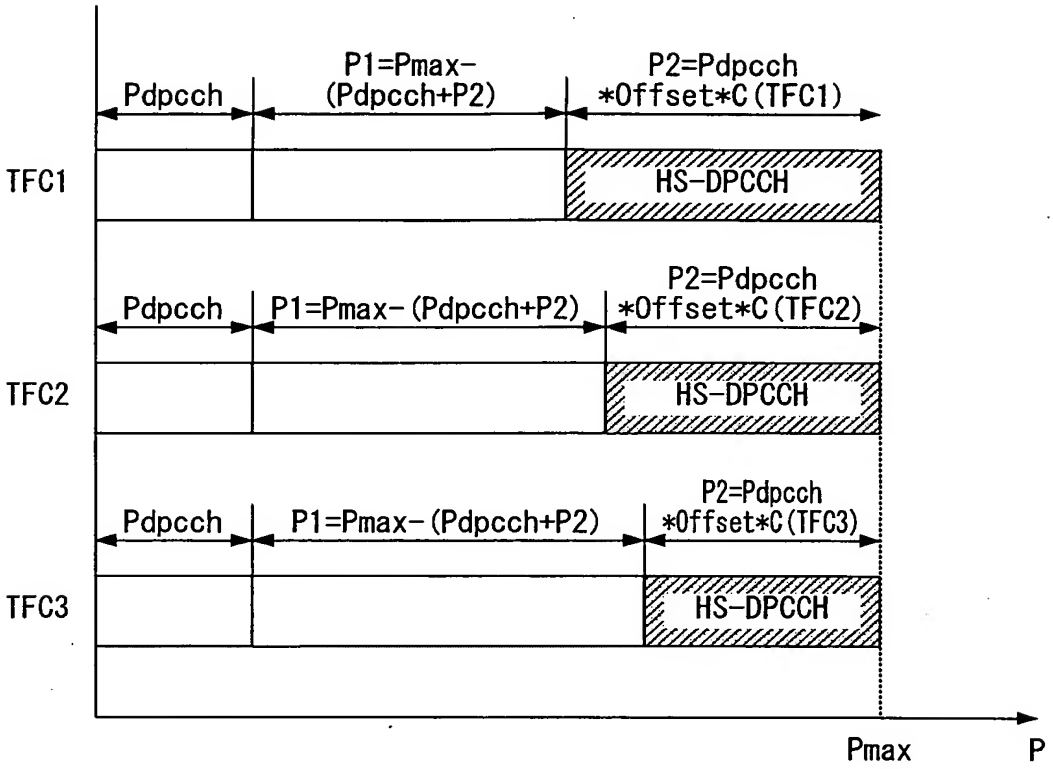
Pdpcch
P1=Pmax-
(Pdpcch+P2)
P2=Pdpcch
*Offset*C(TFC1)
TFC1
HS-DPCCH
Pdpcch
P1=Pmax-(Pdpcch+P2)
P2=Pdpcch
*Offset*C(TFC2)
TFC2
HS-DPCCH
Pdpcch
P1=Pmax-(Pdpcch+P2)
P2=Pdpcch
*Offset*C(TFC3)
TFC3
HS-DPCCH
Pmax
P

FIG.19

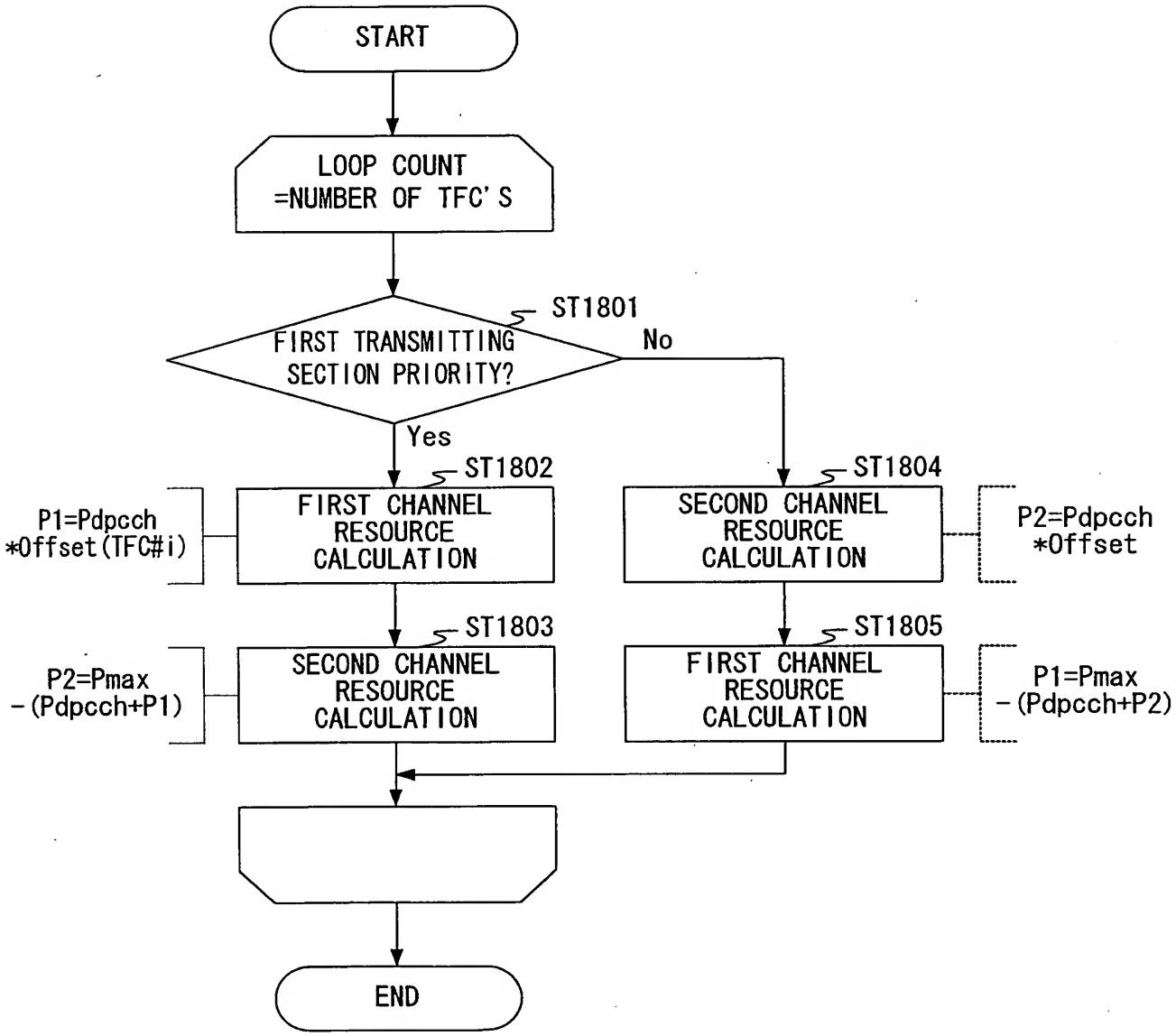
START
LOOP COUNT
=NUMBER OF TFC'S
ST1801
FIRST TRANSMITTING
SECTION PRIORITY?
No
Yes
ST1802
FIRST CHANNEL
RESOURCE
CALCULATION
P1=Pdpcch
*Offset(TFC#i)
ST1804
SECOND CHANNEL
RESOURCE
CALCULATION
P2=Pdpcch
*Offset
ST1803
SECOND CHANNEL
RESOURCE
CALCULATION
P2=Pmax
-(Pdpcch+P1)
ST1805
FIRST CHANNEL
RESOURCE
CALCULATION
P1=Pmax
-(Pdpcch+P2)
END

FIG.20

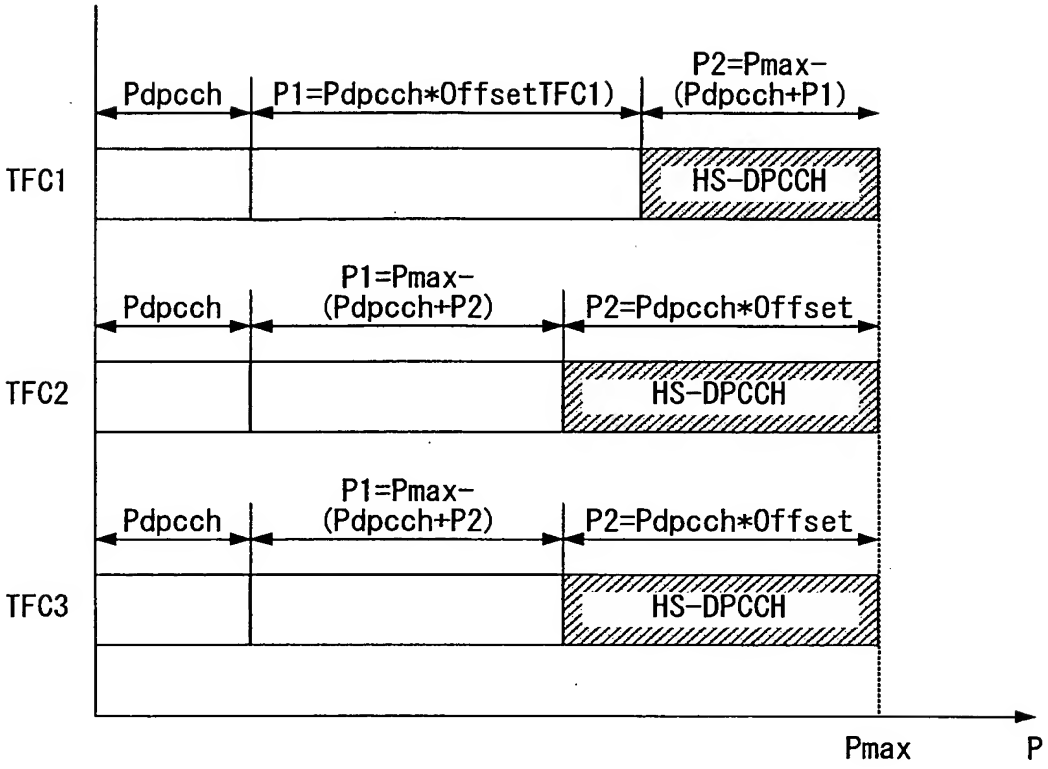
Pdpcch
P1=Pdpcch*OffsetTFC1)
P2=Pmax-
(Pdpcch+P1)
TFC1
HS-DPCCH
Pdpcch
P1=Pmax-
(Pdpcch+P2)
P2=Pdpcch*Offset
TFC2
HS-DPCCH
Pdpcch
P1=Pmax-
(Pdpcch+P2)
P2=Pdpcch*Offset
TFC3
HS-DPCCH
Pmax
P

FIG.21

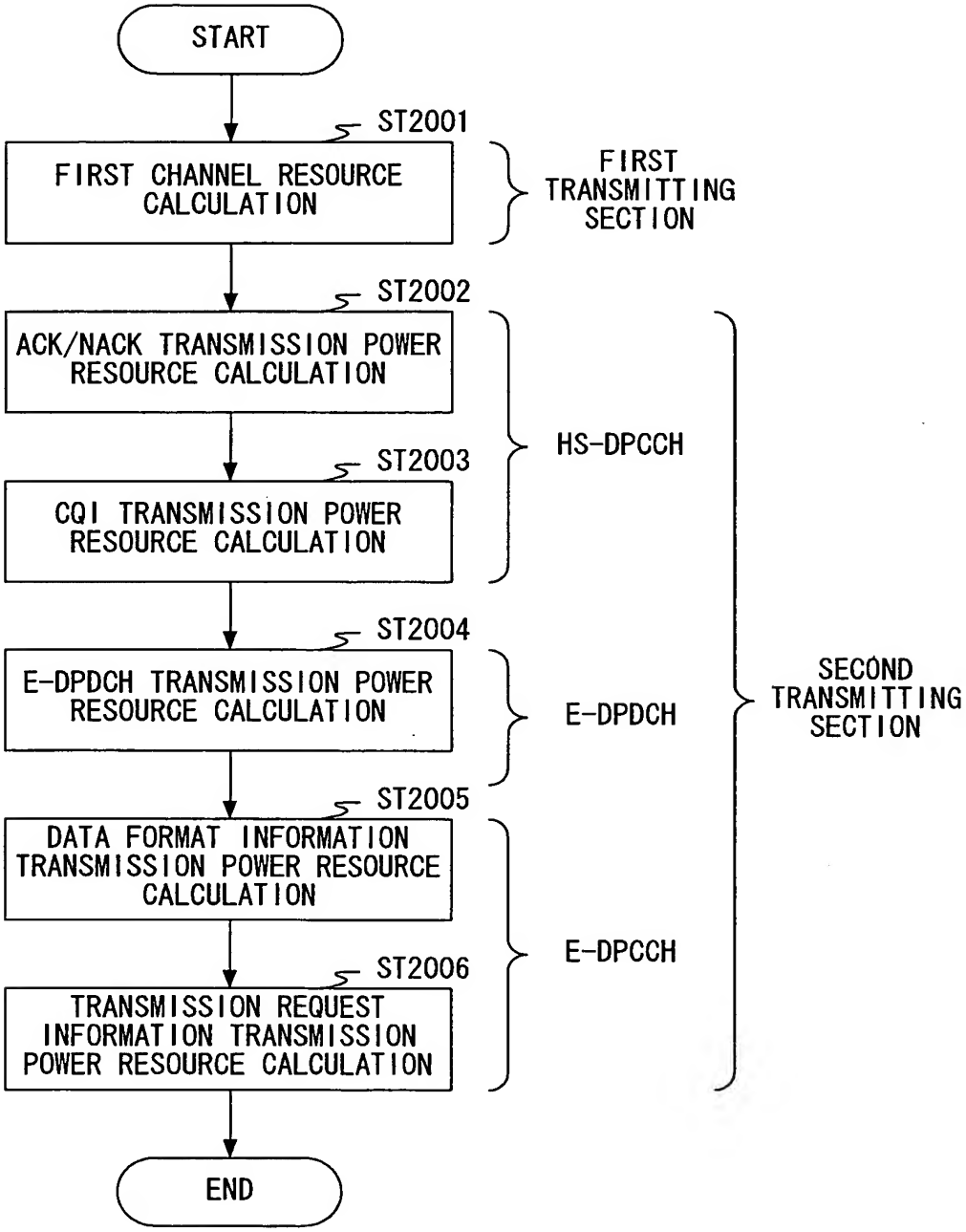
START
ST2001
FIRST CHANNEL RESOURCE CALCULATION
FIRST TRANSMITTING SECTION
ST2002
ACK/NACK TRANSMISSION POWER RESOURCE CALCULATION
HS-DPCCH
ST2003
CQI TRANSMISSION POWER RESOURCE CALCULATION
ST2004
E-DPDCH TRANSMISSION POWER RESOURCE CALCULATION
E-DPDCH
SECOND TRANSMITTING SECTION
ST2005
DATA FORMAT INFORMATION TRANSMISSION POWER RESOURCE CALCULATION
E-DPCCH
ST2006
TRANSMISSION REQUEST INFORMATION TRANSMISSION POWER RESOURCE CALCULATION
END

FIG.22